## THE ILLUSTRATED JOURNAL OF AGRICULTURE.

We agree entirely with the two lettors that precede this article. With B reference to the "destruction of fungi P or smut by the heat in the mash tun, we beg to say that we have taken the temperature of the worts hundreds of times as they were running off, and never found them less than 150° to 152°; the heat of the whole mash -malt and hot water mixed-was. 20 minutes after the mashing was finished and the tun covored, about 158° to 160°, a very curious rise in temperature being always observable at that time.

1896

# The Poultry-Yard.

The Breeding Season - Selection of the breeding stock -Proper number to breed from-How to obtain fertile Eggs - Treatment of the sitting hens.

#### (A. G. GILBERT.)

The season for mating and breeding is now upon us. Success or failt e in results depends upon the way in which the fowls are mated. The aim of the farmer should be to better his stock of layers, by carefal mating, every year. The usual slipshod method of allowing a certain number of male birds to run with the hens, regardless of results, is a positive hinderance to progress. How so? In this way. That without care in selecting the best to breed from, no uniform excellence in laying, or flesh making, can be obtained.

#### SELECT THE BEST TO BREED FROM

The farmer should make it a point to pick out from his stock the best shaped and most prolific layers. If they are yearling hens they should be mated with a two year old cock. If two-year-old fowls, a vigorous year-ling male should be used. If possible, the male bird should come from a family of great layers. Having picked out his best layers and mated them with a carefully selected cock, or, cocherel, he is likely to go on from good to something better. As like is said to beget like, the carefally selectod male and females are not likely to give unsatisfactory offspring. The farmer will have a greater number of Tho fertile eggs and the chickons will make rapid growth and vigorous development. A little thought given to tho; subject of proper mating; a little exertion made to secure this desirable consummation; a little more intelligence and trouble at the right time, will add many more dollars to should be a trough containing the purse in the fall of the year, when should be a trough containing the purse in the fall of the year, when the April and early May cockerels should weigh four, or, five pounds each and the pullets making ready to soon add to the egg yield. With careful treatment and regular feeding the cockerels should make develop ment at the rate of one pound to one peund and two ounces per month This weight may not be attained the first month or six weeks, but the gain in later months will make the figures quoted, about right.

# THE PROPER NUMBER TO BREED FROM.

It has been stated in provious pages the proper number of hens and the different breeds to mate up, but it may be admissible to repeat the figures on the present occasion.

Light Brahma	8, 11	nalo,	7 or 9 ft	males
Buff Cochins,	1	do	5 or 7	do
Plymouth Roc	ks,1	do	9 or 11	do
Wyandottes, White, or, Bla	1	do	do	do
White, or, Bla	.ck			
Minorea.	1	do	11	do
Leghorns,	1	do	11	do
Andalusians.	1	do	11	do
Javas,	1	do	7 or 9	do
-				

If the laying stock are confined to limited quarters, a lesser number of females will do. Or, if an early mat-ing is required for early fertile eggs for incubator use, half the number of hens will be answer. In the latter case and indeed in all cases the rule should be to keep the male bird away from the hens until the breeding pen is made up.

On the other hand where the farmers, hens have an early run out, the full number of hensmontioned, and even a larger number, in the case of the Mediterranean class may be allowed. Much depends upon circumstances governing different cases.

#### HOW TO OBTAIN FERTILE EGGS.

Having picked out the bestinehape and T, size and the best layers in your flock, the next aim should be to have them B put into the pen in the proper condition. Care should be taken not to O have the Plymouth Rocks, Brshmas and Wyandottes too fat. These breeds put on fat very easily and eggs from overfat hens are not likely to be fertile, nor are the chicks, if any are hatched, C likely to be strong upon their legs. If the hens selected have been laying well all the winter, it will be well to give them a rest and, if at all possible, a run out, before the eggs from them H are saved for hatching purposes. All eggs hatch batter after the hens have g had a run out, after the long term of F artificial existence during the winter season. The writer has however, had some exceptional experiences in the case of 11 White Plymouth pullets and a cockerel and 4 White Java hens and a yearling cock. In both cases, although the hens laid well all the winter and were mated early and their eggs set early, the per centsge of fertile eggs was large and the chickens grew vigorously. All this no doubt was owing to the constitutional vigour of the strains the fowls came from. Cut green bone is an excellent ration for feeding to breeding stock. The hens will cat no more of it than is good for them, and it contains shell making as well as egg making matorial.

KEEP THE SITTERS IN A QUIET PLACE.

The sitting hene should be kept in a place by themselves. Close by them There will be no inducement then for I the sitters to go any distance to find food and drink. Canadian corn is the best food for early sitters, because it fills the crop quickly and early eggs will not stand much exposure to cold. Seven minutes is quite long enough for the hen to be away from the nest If you have all the wants handy, she will not be much longer off the egge When the weather is warmer mixed grain is the best food. But the object of the farmer should be to have early chicks, for they mean early cocksruis for market, and carly pullets for layers. The treatment of the newly hatched chickens and the proper way to cause their rapid and vigorous growth, will receive consideration next month.

# FARMERS' SYNDICATE OF THE

#### PROVINCE OF QUEBEC, Office : 23 St. Louis Street, Quebec.

President : His Grace Mgr. L N.

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Farmers, Agricultural Clubs and Sorictics can be supplied with every thing they want, viz :

Pigs : Chester, Borkshire, York-

shiro, &c., &c. Cattle : Canadian, Ayrshire, Jersey, Durham, &c., &c. Sheep : Shropshiro, Lincoln, Ox-ford, Cotswold, South-down, &c., &c. Eartilizer

Fortilizers and agricultural implements of every kind. Send in your order at once for feed cutters. Farm products of all kind sold for our members. Informations of all kind given to members.

MABE LANE: Prices current ; Jan. 13th					
WHYAT, per 504 lbs.; British 's. s.					
WHVAT, per 504 lbs.; British 's. s. White					
	1				
Red 27 31	9				
London flour per 280 lbs 27 —	1				
Barley, foreign 16 44 Malting English 30 38	1				
Malting English	1				
Grinding 16 21					
Grinding 16 21 Oats, English per 8 bushels 15 29					
Usus, English per 8 bushels 10 29					
White pease 32 33	1				
FOBEIGN.	1				
Wheat-Manitoba 27 29					
$\frac{1}{2}$	b				
Canadian white pease 27 28					
London Cattle market. Oct. 14th : 1					
Milch cows, per head. £15 to £23	Ľ				
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Scotch	ľ				
Herefords per stone of 8 lbs 4 4	Ŀ				
Welsh (runts) " " 4 2	١.				
Shorthorns """ … 4 2	L				
Fat cows " " … 3 6	Ľ				
SHEEP.	l				
Small Downs " " 5 8					
Halfbreds """… 5 6	ŀ				
Calves " " 5 4	ŀ				
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Pigs " " 3 6	I				
BUTTER. 8. 8.	I				
Fresh (Rinest factory) ner	ł				
dor lbs 14 15	ł				
Faulich Dolow botton fach 10 19	ł				
Fresh, (Finest factory) per doz. lbs 14 15 English Dairy-butter, fresh 10 13					
Irish (creamery)115					
Danish112	ł				
OHERSE.	I				
Cheshiro per 112 lbs					
Cheshire per 112 los	1				
Cheddar, bhest 06 66	ł				
BACON.					
BAUUR. 49	1				
Canadian 36	I				
Hams, Danish 54					
American					
Autoricau					
Irish, small100					
Hay, per load of 2016 lbs					
Primo mesdow	l				
" clover					
" clover	1				
Daat 101 1000 1400 105	1				
Bost					
Hops from 40s. to 105s. per					
112 lbs 40 110					

#### Prices of Pigs at Calne.

Present prices for prime pigs, in lots of not less than 10, on rail within 100 miles of Calne :-

Thickness of fal in Price any part of the per sc. back. Prime Stores.

Sec 10 bs to 9:c 19 bs. 21 inches and under 7: 6 0d Under 10: 70 bs.... Not exceeding 31 in. 6 6 d Under 12: 50 00 bs.... Not exceeding 31 in. 6 6 0d Under 12: 50 00 bs.... Not exceeding 3 in. 6 6 0d Under 12: 50 0d Auy pigs ou side these limits of their value.

Half-track-2 pige. Whole track-25 pig CHAS. & THOS. HARBIS, & CO., -SS pigz. Limited, Calne, Wilts, Eng. (1)

(1) Messrs. Harris & Co. do not seem to want only 3 of an inch on the back as Mr. Laing does 1-Bo.

# Household-Matters.

# Women Farmers-Becipes-Expectation of life.

In these days of progress nothing is surprising, so we are quite propared to hear of women out West who have taken up, and become quite successful in farming.

It is not every woman who can, or has the strength of mind or body to do this. It requires a strong will, with a detormination to overcome all difficulties which may beset her path, and what she cannot do herself she must be able to show people how it is to be done, and not only show but superin-tend the work.

To give an order is one thing, to see it carried out is the secret of success, especially where one has to deal with an uneducated mind for there are some parts of farm work that must be done by the labouring man, and herein lies often the secret of women's power over man. A man will give an order and expect to have it carried out, without staying to see it done, and really this ought to be all that is necessary, but bitter experience often nowadays shows how hopeless it is unless the mind is educated to the work.

I well remember superintending the planting of some trees once, and dear mo I how gradgingly every spadefal of earth was dug out, so as to get plenty of space and depth for the tree to thrive in, it really was too fanny for anything seeing that the man was paid by the hour, but womanlike I stuck to my post and got the trees planted as I wished. There are men who have the power of command so great that fear of being detected will cause their orders to be strictly carried out, and of course a man working on his own property would be likely to do his very best.

One has only to look at the large Institutions carried on by women to show what they can do. Where can one find things more economicaly carried on in than the Sisterhoods entirely conducted by women? They leave nothing to chance ; but where work is being done, there, close by, is one to see all orders faithfully carried out. Now, a woman to carry on a farm successfully must have either have

been brought up on one, or have the been brought up on one, or have the happy faculty of picking up the know-ledge required for doing so. Farm-ing with plenty of money, where expe-rience can be bought, is often a dead failure, a shrewd woman will think twice about it. I did hear of two ladies, with plenty of money to back them with plenty of money to back them, who for want of some fresh excitement, having travelled all over the continent, spoke of buying a farm, asit would be so nico to have chickens, pigs &c., to see round them : that was their idea of farming. There is no doubt about its farming. There is no doubt about its being a very delightfal occupation, to watch the bursting of the plants through the soil, the excitement of picking the weeds out from choking the tender bud, then, again picking out the weakso as to give the vigorous plants plenty of room to develop to their natural size, these are some of the delights of farm life. The wonder is that some more

young girls do not try to start a market garden, there are so many things they could grow that pay well, so they would readily be given a bit of land to try on and in time might see their way to owning a farm. It would be far preferable to rushing to town; often finding themselves exhausted and having to return home with impared digestive organs through unwholesome